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Titolo	Coating Technology for Vehicle Applications // edited by Sung Chul Cha, Ali Erdemir
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Descrizione fisica	1 online resource (248 p.)
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Soggetti	Tribology Corrosion and anti-corrosives Coatings Automotive engineering Transportation Energy efficiency Tribology, Corrosion and Coatings Automotive Engineering Energy Efficiency
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Energy consumption due to friction in motored vehicles and low-friction coatings to reduce it -- Diverse Coatings for Engine Parts -- Overview of DLC-coated engine components -- Coating Technologies for Automotive Engine Applications -- Customized coating systems for products with added value from development to high volume production -- Surface Treatments for Automotive Applications -- Hard Coatings and Coating Processes for the Automotive Industry -- Surface texturing for engine parts -- Coatings

for Aluminum Die-casting Dies -- Coatings for Forming Dies of Advanced High-Strength Steel -- Diamond-like carbon coatings with special wettability for automotive applications -- Smart surfaces for lubrication – solid lubricants and adaptive texture -- Decorative PVD coatings on Automotive Plastics -- Index.

Sommario/riassunto

This book describes current, competitive coating technologies for vehicles. The authors detail how these technologies impact energy efficiency in engines and with increased use of lightweight materials and by varying coatings applications can resolve wear problems, resulting in the increased lifecycle of dies and other vehicle components.
